Five Key Points on Setting Delta Environmental Flows

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State Water Resources Control Board

Informational Proceeding on Delta Flow Criteria

Five Key Points

- 1. Environmental flows are more than just volumes of inflows and outflows
- 2. Recent flow regimes both harm native species and encourage non-native species
- 3. Flow is a major determinant of habitat and transport
- 4. Recent Delta environmental flows are insufficient to support native Delta fishes for today's habitats
- 5. A strong science program and a flexible management regime are essential to improving flow criteria



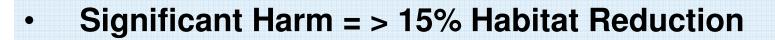




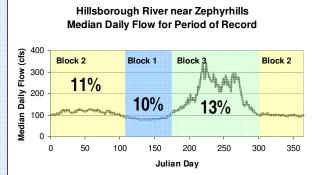


Setting Environmental Flows in Florida

- "The minimum flow for a given watercourse shall be the limit at which further withdrawals would be <u>significantly harmful</u> to the water resources or ecology of the area." Section 373.042 Florida Statutes
- Hydrograph Building Block Approach
- Daily Time Step
- Percent of Flow Reduction



Physical Habitat Simulation (PHABSIM)



Setting Estuarine Environmental Flows in Texas

•"basin and bay expert science team shall develop environmental flow analyses and a <u>recommended</u> <u>environmental flow regime</u> for the river and bay system ... through a <u>collaborative process designed to achieve</u> <u>consensus</u>"

• "must consider all reasonably available science, without regard to the need for the water for other uses, and ... the <u>recommendations must be based solely on the best</u> <u>science available</u>"

Texas Water Code §11.02362 (m)

Senate Bill 3 - 2007



Setting Estuarine Environmental Flows in Texas (continued)

Statewide Environmental Flows Science Advisory
Committee

- Bay/Basin Expert Science Team
- Address Seasonal and Yearly Fluctuations
- Support a "Sound Ecological Environment"

 Maintain Productivity, Extent, and Persistence of Key Habitats

Stakeholder Committee and State Agencies (TCEQ)

